

What is claimed is:

1. A process for preparing an elastic polyurethane  
5 fiber, comprising the steps of:

mixing one component selected from the group  
consisting of polystyrene polymers or polystyrene copolymers  
having a number average molecular weight of 50,000-500,000  
with polyurethane having a number average molecular weight  
10 of 15,000-100,000, to prepare a polymer mixture; and  
spinning the polymer mixture.

2. The process as defined in claim 1, wherein the  
component selected from the group consisting of polystyrene  
15 polymers or polystyrene copolymers is mixed with the  
polyurethane at a mixing ratio by weight ranging from 1:99  
to 30:70 (w/w), in the mixing step.

3. The process as defined in claim 1, wherein the  
20 component selected from the group consisting of polystyrene  
polymers or polystyrene copolymers comprises polystyrene, p-  
alkylpolystyrene, p-arylpolystyrene, styrene-acrylonitrile  
copolymer (SAN), styrene-butadiene copolymer (SBS), styrene-  
butadiene block copolymer, and acrylonitrile-butadiene-  
25 styrene copolymer (ABS).

4. A polyurethane elastic fiber made by the method of any one of claims 1 to 3.